HF Happenings 909

Ashdod Lighthouse
ARLHS ISR 001
ILLW il0003
Israel
OPERATORS:
4X1ST/L.H.
4Z1ZV/L.H.
4X1KS/L.H.
4X6ZM/L.H.

The Updated Results of the Hammies Sprint

There was a log that got missed! 23 logs were received for the Hammies Sprint held on Sunday 14 June. Where are all the Hammies?

1st the ZS2 Hammies Club, ZS2ZU – 103 points
2nd Jerry van Zijl, ZS2TL - 92 points
3rd Woody Collett, ZS3WL - 84 points
4th Sybrand Cillie, ZS1SJ - 65 points
5th the ZS6 Hammies Club, ZS6ZU - 51 points
6th Roy Walsh, ZS3RW – 47 points
7th Deon Fraser, ZS5DCF - 46 points
8th Charles le Roux, ZS1CF - 45 points
9th Nathan Busse, ZU6X - 41 points
10th Romeo Nardini - ZS6ARQ - 39 points
11th the ZS3 Hammies Club, ZS3ZU - 36 points
12th Michael Wolffe, ZS1CO - 31 points
13th Henry Stephan, ZS6MC and Noel Hammond, ZR6DX - 29 points
15th Phillip van Tonder, ZS6PVT - 28 points
16th Keith Barker, ZS6HI - 27 points
17th Gary Ingle, ZS5GI and Guy Eales, ZS6GUY - 22 points
19th Schalk Bezuidenhout, ZS6JBZ - 20 points
20th Anthony Rouquette, ZS6ANT - 18 points
21st Garth Wheeler, ZS5GMW - 17 points
22nd Andrew Fraser, ZR6M and Petrus Greyling, ZS6PGN - 11

The Provisional Results of the SARL Wednesday 80 m Club Sprint

The Contest Committee received 47 e-mails contain 46 logs. One log has no indication of which Club must get the points. 687 QSOs were made into 311 grid squares on 15 July during the Sprint.

1st the West Rand ARC – 838 points (20 logs)
2nd the Boland ARC – 548 points (13 logs)

Some of these events may not take place due to the restrictions put in place for the dreaded Lurgi-19!

July
21 – Highway ARC meeting
25 – CTARC AGM
25 and 26 – Islands on the Air Contest
29 and 30 - Delta Aquarids and Alpha Capricornids meteor showers

August
2 – SARL HF Phone Contest
9 – National Women's Day and the SARL YL Sprint
10 – Public holiday and the SARL Youth Sprint
12 - International Youth Day
12 to 13 - Perseids meteor shower
15 - SARL 95 40 m Club Sprint and Victory in the Pacific Day (WW2)
16 – SARL HF Digital Contest
18 - Highway ARC meeting
19 - World Humanitarian Day
20 - Islamic New Year
22 and 23 - International Lighthouse and Lightship weekend
30 - SARL HF CW contest

3rd the Bo-Karoo ARC – 388 points (8 logs)
4th the Hibiscus ARC – 138 points (2 logs)
5th the Northern Cape ARC – 42 points (1 log)
6th the Rustenburg Branch – 20 points (1 log)

Combined score after 4 legs
1st the West Rand ARC – 3 521 points
2nd the Boland ARC – 3 123 points
3rd the Bo-Karoo ARC – 1 092 points
4th the Hibiscus ARC – 565 points
5th the Magalies ARC – 387 points
6th the Bloemfontein ARC – 232 points
7th the Cape Town ARC – 170 points
8th the Sandton ARC – 152 points
9th the Northern Cape ARC – 123 points
10th the Rustenburg Branch – 84 points
11th the Vrystaat ARC – 64 points
12th the Lichtenburg ARC – 37 points
13th the Highway Arc – 32 points
14th the Secunda ARC – 18 points

And the individual scores
1st Wayne, ZS1WBR – 110 points
2nd Jan, ZS1VDV - 96 points
3rd Sid, ZS5H and Phillip, ZS6PVT - 94 points
5th Sybrand, ZS1SJ - 92 points
6th Tim, ZS6BID - 86 points
7th Kobus, ZS6BOS and Andreas, ZS6ADU - 84 points
9th Helmar, ZS1H - 76 points
10th Aldo, ZS4AL - 74 points
11th Pieter, ZS6XT and Romeo, ZS6ARQ - 64 points
13th Adriaan, ZS1ADL - 62 points
14th Woody, ZS3WL - 60 points
15th Nick, ZS1N - 50 points
16th Ean, ZS1PR; Carl, ZS1KC and Heather, ZS5YH - 44 points
19th Roy, ZS3RW and Anthony, ZS6ANT - 42 points
21st Vaughn, ZS6VLR - 40 points
22nd Andre, ZS1F - 38 points
23rd Andrew, ZS6AN and Errol, ZS6KED - 36 points
25th Alta, ZR3PA; Geoff, ZS6C; Kevin, ZS6KVN and David, ZS6ACC - 30 points
29th Marius, ZS1ML Johan, ZS6JBZ and Pieter, ZS3PG - 28 points
32nd Schalk, ZR1SWB; Gert, ZR6GRT and Veronica, ZR6TVK - 26 points
35th Jack, ZS6JJK - 24 points
36th Fritz, ZS1KRF – 22 points (no Club indicated)
37th Casey, ZS1AAS and Johan, ZS6JHN - 20 points
39th Thanie, ZS4AZ – 14 points
40th Jan, ZS6ALC and Danie, ZS6DPS - 40 points
42nd Rassie, ZS1YT; Con, ZS1ES; Gordon, ZS6AGE and Thys, ZS1TBP - 8 points
46th Christo, ZS1BOK - 6 points
Sidney, ZS5SID – e-mail received with no log attached.

Solar Cycle 25

One of the most recent forecasts for Solar Cycle 25 hints that we could be partying like it's 1959, "...we deduce that Sunspot Cycle 25 will have a magnitude that rivals the top few since records began. This outcome would be in stark contrast to the community consensus estimate of Sunspot Cycle 25 magnitude... We predict with 95% confidence that the Cycle 25 amplitude will fall between 153 and 305 spots." https://arxiv.org/pdf/2006.15263.pdf

The Mortty v4 CW and FSK RTTY Keyer

Larry, K8UT and Steve, N8AR, turned suggestions and improvements to the Mortty v3 CW and RTTY Keyer into ... Mortty v4! According to Larry, changes include:

- CW speed control is standard
- Four status LEDs are provided: power, PTT, Radio1 Tx, Radio2 Tx
- AUX I/O feature for CW monitor tone or a push button or a DIY project
- Improved sketch management -- no tools or disassembly required
- Fully Assembled and Tested only (no longer a kit)

To fit the new features into a similar small form factor, v4 uses surface mount components and each unit is lovingly assembled by robots. Introductory pricing is $30. First units have already been shipped! Learn more on Mortty's homepage https://hamprojects.info/mortty/ or read Mortty v4's Installation and Operating instructions https://hamprojects.info/hamprojects-download-page/

Display contest contacts on an online map

Dan's, KB6NU, blog explains two ways to display contest contacts on an online map. LogView, by EI8IC and Log2Map, by ON6ZQ, operate on Cabrillo and ADIF files, respectively. Using tools like these can point to areas where you might want to improve your signal. https://www.kb6nu.com/map-your-contest-qsos/
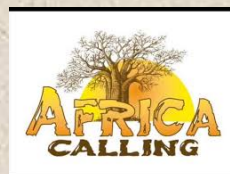
Club Score Processor

Scott, N3FJP, has released a new 1.2 version of Club Score Processor. This application can be used to display a web-based leader board of scores for a group of amateurs that are competing in a particular contest https://www.n3fjp.com/news/news2020-07-13.html. Enhancements in the new version include additional text and HTML placement on the leader board page and the ability to accept scores from non-N3FJP logging programs https://www.n3fjp.com/clubscore.html.

Something to think about

Here is an odd phenomenon: When watching soundless video, many humans can "hear" sound that would be appropriate to be associated with it. During and even after some contests, it seems like there is also the reverse - sounds in the headphones induce visualizations of the audio. https://www.nytimes.com/2017/12/08/science/why-we-hear-some-silent-gifs.html

African DX

Contacts with stations on the African continent count towards the SARL's All Africa Award (www.sarl.org.za/public/awards/awards.asp)

Ghana, 9G. Matteo, IZ4YGS, will once again be active as 9G5GS from Sanzule, Ellembelle District, Western Region (WW Loc. IJ84SX), Ghana, in the jungle among palm trees and swamps, snakes and crocodiles, a few hundred meters from the ocean, between 8 August and 15 September. Activity will be limited to his spare time (usually on "almost every evening", between

21:00 and 00:00 UTC) on 160 to 10 metres using mostly ft8 and SSB, with a Yaesu FT-891 and 100 watts into a vertical antenna. He will also be active through the QO-100 geostationary satellite, USB mode. He will update daily to ClubLog. QSL via LoTW, IZ4YGS direct or eQSL.

Burkina Faso, XT. Max, DK1MAX will once again be active as XT2MAX during November/December 2020. QSL via EA5GL. More to follow.

Guinea, 3X. The F6KOP team (E44CC) is preparing an DXpedition to Guinea and Kassa Island AF 051 during January 2021. Operation with 5 stations from 160 to 10 meter using CW, SSB and digital. More to follow.

African Islands
IOTA Frequencies
CW: 28 040 24 920 21 040 18 098 14 040 10 114 7 030 3 530 kHz
SSB: 28 560 28 460 24 950 21 260 18 128 14 260 7 055 3 760 kHz

Madeira, CT9. Ulf, DL5AXX, will be active as CT9ABV from Madeira Island (AF-014) during the RSGB IOTA Contest on 25 and 26 July as a Single-Op/ Mixed-Mode/12-Hrs entry. QSL via DL5AXX.

Paul, DL5CW, will be active as CR3W or CT9/DL5CW operating the other 12 hours of the contest. QSL CT9/DL5CW via DL5CW or QSL CR3W via DL5AXX, OQRS (see QRZ.com) or LoTW.

African Italy, IH. Raffalele, IH9YMC will participate in the IOTA Contest from his home QTH on Pantelleria Island (AF-018). QSL only via LoTW or eQSL; he also uploads his log to Club Log on a regular basis.

Other IOTA activity: AF-004 - EA8DEG on the Canary Islands on 20 m SSB; AF-004 - EA8NF on the Canary Islands on 20 m SSB; AF-004 - EA8OW on the Canary Islands on 20 m SSB; AF-005 - D44PM on Santiago Island on 20 m SSB; AF-057 - 5R8UI on Nosy Be on 20 m Digi

Mauritius, 3B8. A team with G0CKV and others will be active as 3B8M during the CQ WW CW contest on 28 and 29 November. Activity before and after the contest on the low bands. QSL via M0OXO.

St Helena, ZD7. Oliver, W6NV will once again be active as ZD7W during the CQ WW CW contest on 28 and 29 November. QSL via LoTW.

NEWSDR 2020 conference online
        The New England SDR Group recently announced that their NEWSDR 2020 conference will be online on Wednesday 12 August 2020 https://newsdr.org/workshops/newsdr2020/. This is the tenth annual workshop by this group, dedicated to "providing a forum that enables individuals working on SDR-related projects within the New England area to get together, collaborate and introduce SDR concepts to those interested in furthering their knowledge of SDR capabilities and available resources. NEWSDR 2020 welcomes both experienced SDR enthusiasts as well as individuals who are interested in getting started with SDR." They have lined up some great sponsors, including Analog Devices, Mathworks, Ettus Research/National Instruments, MediaTek, Lynk and Verizon. Though the conference is free, registration is required by 9 August to obtain login information for the virtual

sessions https://docs.google.com/forms/d/e/1FAIpQLSddQJye64sMu47YsrMsZN_-YnJVp2liOz-rswLHKMFVYLB8IQ/viewform?usp=sf_link.

Word to the Wise

Serendipity - from lexico.com: "The occurrence and development of events by chance in a happy or beneficial way." Could this also be a synonym for "good conditions"?

Icom IC-705 walkthrough

@EditorNCJ recommends the Icom IC-705 walkthrough video by Bob, G0FGX. Described as a "shack in a box," it covers HF through VHF/UHF including D-STAR. At only 17 minutes long, the video is worth watching. There are a lot of nice "convenience" features, such as automatically setting display brightness based on ambient light levels, inclusion of a GPS receiver, built-in Wi-Fi and even a matching piece of luggage! https://www.youtube.com/watch?v=L_7uAa-9blE&feature=emb_logo

Operating Tip

Know Your Grid Square and Sub-square - for many contests using grid squares as the exchange, the four-character version is required. For the upcoming ARRL 220 MHz and Up Distance Contest, six-character grid squares are the exchange. Using six characters, stations in the same sub-square are no farther apart than 10,4 km. https://en.wikipedia.org/wiki/Maidenhead_Locator_System

Contest Calendar

This week's contests as compiled by Bruce Horn, WA7BNM. The period covered is 20 to 27 July 2020

Worldwide Sideband Activity Contest
01:00 - 01:59 UTC 21 July
Geographic Focus: Worldwide
Participation: Worldwide
Mode: SSB
Bands: 160, 80, 40, 20, 15, 10, 6 m
Classes: Single Op - QRP, low or high; Overlay: Youth (26 years old or younger); Youth YL (female 26 years old or younger); YL (female older than 26 years
Max power: HP: 1 500 W; LP: 100 W; QRP: 5 W
Exchange: RS and age group (OM, YL, Youth YL or Youth)
Work stations: Once per band
QSO Points: 1 point per QSO with OM; 5 points per QSO with YL; 10 points per QSO with Youth; 15 points per QSO with Youth YL
Multipliers: Each DXCC once per band
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 01:59 UTC July 22, 2020
E-mail logs to: logs@wwsac.com
Mail logs to: (none)
Find rules at: https://wwsac.com/rules.html

EA8/EA4NF
Philippe
LANZAROTE ISLAND
August 10-17, 2020

RTTYOPS Week Sprint
17:00 - 19:00 UTC 21 July
Geographic Focus: Worldwide
Participation: Worldwide
Mode: RTTY
Bands: 80, 40, 20 m
Classes: Single Op
Max operating hours: 2 hours
Exchange: other station's call, your call, serial no and your name
Work stations: Once per band
QSO Points: 1 point per QSO
Multipliers: (none)
Score Calculation: Total score = total QSO points
Submit logs by: 23:59 UTC 28 July 2020
E-mail logs to: rtty-week-tuesday@nrrlcontest.no

Mail logs to: (none)
Find rules at:
https://rttyops.wordpress.com/rtty-mini-contests/rttyops-Week Sprint/

SKCC Sprint
00:00 - 02:00 UTC 22 July
Geographic Focus: Worldwide
Participation: Worldwide
Awards: Worldwide
Mode: CW
Bands: 160, 80, 40, 20, 15, 10 m
Classes: (none)
Exchange: RST, state, province or country, name and SKCC no or power
Work stations: Once per band
QSO Points: (see rules)
Multipliers: Each state, province, or country once
Score Calculation: Total score = (total QSO points x total mults) and bonus points
Submit logs by: 23:59 UTC 24 July 2020
E-mail log summary to: (none)
Post log summary at:
www.skccgroup.com/operating_activities/weekday_sprint/submit-display.php
Mail logs to: (none)
Find rules at:
www.skccgroup.com/operating_activities/weekday_sprint/

73 from Sicily
de Joe, IT9RZU

Phone Fray
02:30 - 03:00 UTC 22 July
Geographic Focus: North America
Participation: Worldwide
Mode: SSB
Bands: 160, 80, 40, 20, 15 m
Classes: Single Op
Max power: 100 W
Exchange: NA: Name and state, province or country; non-NA: Name
Work stations: Once per band

QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station
Multipliers: Each US state (including KH6/KL7) once per band; Each VE province/territory once per band; Each North American country (except W/VE) once per band
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 03:00 UTC 24 July 2020
E-mail logs to: (none)
Post log summary at: www.3830scores.com
Mail logs to: (none)
Find rules at:
www.perluma.com/Phone_Fray_Contest_Rules.pdf

CWops Mini-CWT Test
13:00 - 14:00 UTC and 19:00 - 20:00 UTC 22 July and 03:00 - 04:00 UTC 23 July
Geographic Focus: Worldwide
Participation: Worldwide
Awards: Worldwide
Mode: CW
Bands: 160, 80, 40, 20, 15, 10 m
Classes: Single Op - QRP, low or high
Max power: HP: >100 W; LP: 100 W; QRP: 5 W
Exchange: Member: Name and member no; non-Member: Name and state, province or country
Work stations: Once per band
QSO Points: 1 point per QSO
Multipliers: Each call once
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 04:00 UTC 25 July 2020
Post log summary at: www.3830scores.com
Mail logs to: (none)
Find rules at: https://cwops.org/cwops-tests/

RTTYOPS Week Sprint
17:00 - 19:00 UTC 23 July
Geographic Focus: Worldwide
Participation: Worldwide
Mode: RTTY
Bands: 80, 40, 20 m
Classes: Single Op
Max operating hours: 2 hours
Exchange: other station's call, your call, serial no and your name
Work stations: Once per band
QSO Points: 1 point per QSO

Multipliers: (none)
Score Calculation: Total score = total QSO points
Submit logs by: 23:59 UTC 30 July 2020
E-mail logs to: rtty-week-thursday@nrrlcontest.no
Mail logs to: (none)
Find rules at: https://rttyops.wordpress.com/rtty-mini-contests/rttyops-Week Sprint/

RSGB 80 m Club Data Championship
19:00 - 20:30 UTC 23 July
Geographic Focus: United Kingdom
Participation: Worldwide
Awards: United Kingdom
Mode: RTTY, PSK
Bands: 80 m Only
Classes: (none)
Exchange: RST and serial no
QSO Points: 1 point per QSO
Multipliers: (none)
Score Calculation: (see rules)
Submit logs by: 23:59 UTC 24 July 2020
Upload log at: www.rsgbcc.org/cgi-bin/hfenter.pl
Mail logs to: (none)
Find rules at: www.rsgbcc.org/hf/rules/2020/r80 mcc.shtml

QRP Fox Hunt
01:00 - 02:30 UTC 24 July
Geographic Focus: United States
Participation: Worldwide
Mode: CW
Bands: 20 m Only
Classes: Single Op - fox or hound)
Max power: 5 W
Exchange: RST, state, province or country, name and power output
QSO Points: 1 point per QSO
Multipliers: (none)

Score Calculation: Total score = total QSO points
Submit logs by: 02:30 UTC 25 July 2020
E-mail logs to: (see rules)
Mail logs to: (none)
Find rules at: www.qrpfoxhunt.org/summer_rules.htm

NCCC RTTY Sprint
01:45 - 02:15 UTC 24 July
Geographic Focus: North America
Participation: Worldwide
Mode: RTTY
Bands: (see rules)
Classes: (none)
Exchange: Serial no, name and QTH
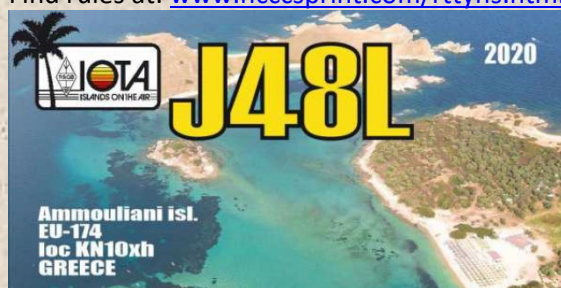Score Calculation: Total score = total QSO points x total mults
Submit logs by: 26 July 2020
E-mail logs to: (none)
Post log summary at: www.3830scores.com/
Mail logs to: (none)
Find rules at: www.ncccsprint.com/rttyns.html

NCCC Sprint
02:30 - 03:00 UTC 24 July
Geographic Focus: North America
Participation: Worldwide
Mode: CW
Bands: (see rules)
Classes: (none)
Exchange: Serial no, name and QTH
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 26 July 2020
E-mail logs to: (none)
Post log summary at: www.3830scores.com/
Mail logs to: (none)
Find rules at: www.ncccsprint.com/rules.html

RSGB IOTA Contest
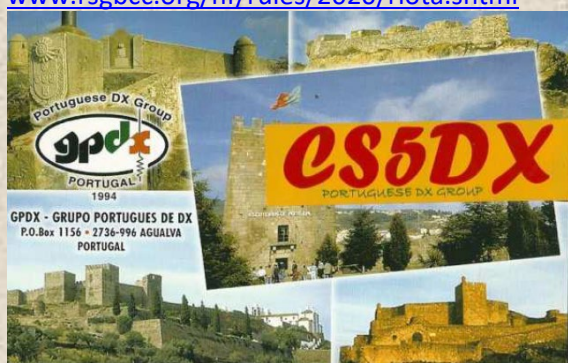12:00 UTC 25 July to 12:00 UTC 26 July
Geographic Focus: Worldwide
Participation: Worldwide
Mode: CW, SSB

Bands: 80, 40, 20, 15, 10 m
Classes: Single Op 12 hrs - Island Fixed or World; CW, SSB or mixed; QRP, low or high; Single Op 24 hrs - Island Fixed or World; CW, SSB or mixed; QRP, low or high; Single Op Assisted 12 hrs - Island Fixed or World; CW, SSB or mixed; QRP, low or high; Single Op Assisted 24 hrs - Island Fixed or World; CW, SSB or mixed; QRP, low or high; Single Op 12 hrs - Island DXpedition; CW, SSB or mixed; QRP, low or high (suspended for 2020); Single Op 24 hrs - Island DXpedition; CW, SSB or mixed; QRP, low or high (suspended for 2020); Single Op Assisted 12 hrs - Island DXpedition; CW, SSB or mixed; QRP, low or high (suspended for 2020); Single Op Assisted 24 hrs - Island DXpedition; CW, SSB or mixed; QRP, low or high (suspended for 2020); Multi-Single - Island Fixed or Island DXpedition - QRP, low or high (suspended for 2020); Multi-Two - Island Fixed or Island DXpedition - QRP, low or high (suspended for 2020)
Max power: HP: 1 500 W; LP: 100 W; QRP: 5 W
Exchange: RS(T), serial no and IOTA no (if applicable)
Work stations: Once per band per mode
QSO Points: (see rules)
Multipliers: Each IOTA reference once per band per mode
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 31 July 2020
E-mail logs to: (none)
Upload log at: www.rsgbcc.org/cgi-bin/hfenter.pl
Mail logs to: (none)
Find rules at:
www.rsgbcc.org/hf/rules/2020/riota.shtml

ARS Flight of the Bumblebees
17:00 - 21:00 UTC 26 July
Geographic Focus: North America

Participation: Worldwide
Mode: CW
Bands: 40, 20, 15, 10 m
Classes: Home-Based; Bumblebee
Max power: 5 W
Exchange: Home: RST, state, province or country and power; Bumblebee: RST, state, province or country and Bumblebee no
Work stations: Once per band
QSO Points: 1 point per QSO
Multipliers: (none)
Score Calculation: Total score = total QSO points x total Bumblebees x 3
Submit logs by: 9 August 2020
E-mail logs to: ARSBumblebees@gmail.com
Mail logs to: (none)
Find rules at: www.arsqrp.blogspot.com/

QCX Challenge
13:00 - 14:00 UTC and 19:00 - 20:00 UTC 27 July and 03:00 - 04:00 UTC 28 July
Geographic Focus: Worldwide
Participation: Worldwide
Mode: CW
Bands: 160, 80, 40, 20, 15, 10 m
Classes: Single Op
Max power: HP: >5 W; QRP: 5 W
Exchange: RST, name, state, province or country and Rig
Work stations: Once per band
QSO Points: 3 points per QSO with QCX station; 1 point per QSO with non-QCX station
Multipliers: (none)
Score Calculation: Total score = total QSO points
Submit logs by: 04:00 UTC August 4, 2020
Post log summary at: www.3830scores.com
Mail logs to: (none)
Find rules at: www.qrp-labs.com/party.html

RSGB FT4 Contest Series
19:00 - 20:30 UTC 27 July
Geographic Focus: United Kingdom
Participation: Worldwide
Mode: FT4
Bands: 80 m Only
Classes: 100 W; 10 W
Exchange: 4-character grid square
QSO Points: 1 point per QSO
Multipliers: Each large locator square

Score Calculation: Total score = total QSO points x total mults
Submit logs by: 20:30 UTC 28 July 2020
Upload log at: www.rsgbcc.org/cgi-bin/hfenter.pl

Mail logs to: (none)
Find rules at: www.rsgbcc.org/hf/rules/2020/r80m_ft4.shtml

Next Week's Contests

Worldwide Sideband Activity Contest, 01:00 - 01:59 UTC 28 July
RTTYOPS Week Sprint, 17:00 - 19:00 UTC 28 July
Phone Fray, 02:30 - 03:00 UTC 29 July
CWops Mini-CWT Test, 13:00 - 14:00 UTC and 19:00 - 20:00 UTC 29 July and 03:00 - 04:00 UTC 30 July
RTTYOPS Week Sprint, 17:00 - 19:00 UTC 30 July
QRP Fox Hunt, 01:00 - 02:30 UTC 31 July
NCCC RTTY Sprint, 01:45 - 02:15 UTC 31 July
NCCC Sprint, 02:30 - 03:00 UTC 31 July
Batavia FT8 Contest, 00:00 UTC 1 August to 23:59 UTC 2 August
10-10 International Summer SSB Contest, 00:01 UTC 1 August to 23:59 UTC 2 August
European HF Championship, 12:00 - 23:59 UTC 1 August
RTTYOPS Weekend Sprint, 16:00 - 19:59 UTC 1 August
North American CW QSO Party, 18:00 UTC 1 August to 05:59 UTC 2 August
SARL HF Phone Contest, 14:00 - 17:00 UTC 2 August
ARS Spartan Sprint, 01:00 - 03:00 UTC 4 August
Worldwide Sideband Activity Contest, 01:00 - 01:59 UTC 4 August
RTTYOPS Week Sprint, 17:00 - 19:00 UTC 4 August

Items used with acknowledgement to the ARRL Letter, the ARRL DX News, the ARRL Contest Update, OPDX Bulletin, 425 DX Bulletin, DXNL Newsletter, WIA-News, the RSGB News, DxCoffee, Southgate ARC News, DX World and the Amateur Radio Newsletter